ABSTRACT OF THE DISCLOSURE

Methods and systems are provided for facilitating intra-domain mobility. A first network or domain includes a home agent or SIP proxy of a mobile node. A second network includes two or more subnetworks and at least one dynamic tunneling agent (DTA). Each subnetwork includes an associated subnet agent. To communicate, the mobile node first registers with a subnet agent, receives a local care-of-address and a global care-of-address, and then registers with a DTA. The local care-of-address received from the subnet agent may enable communication with the mobile node without determining a specific route to the mobile node. The global care-of-address received from the subnet agent may include the address of the DTA with which to register. On registering with the DTA, the DTA may provide the mobile node with a unique, globally reachable global care-of-address, which the mobile node may then forward to a home agent, SIP proxy, or a correspondent node. Accordingly, the mobile node may transition from any of the subnetworks to another subnetwork without communicating to the home agent information about the transition and without communicating to the DTA information about a security association between the mobile node and the home agent.

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